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| Michael T. Davis  Pre-Calculus | | 1.6 Quadratic Functions – Finding Real Zeros HW (2)  September 21, 2016 | |
| Name: | |

**Determining the number of real zeros (x-intercepts) and the values of the zeros from a Vertex Form equation**

1. Without graphing, determine the number of real zeros (x-intercepts) of the parabola with equation  . Then, find the real zeros.
2. Without graphing, determine the number of real zeros (x-intercepts) of the parabola with equation . Then, find the real zeros.
3. Without graphing, determine the number of real zeros (x-intercepts) of the parabola with equation . Then, find the real zeros.
4. Without graphing, determine the number of real zeros (x-intercepts) of the parabola with equation . Then, find the real zeros.

**Determining the number of real zeros (x-intercepts) and the values of the zeros from a factored quadratic equation, i.e. solving** 

1. Determine the real zeros (x-intercepts) of the parabola with equation , i.e. solve 
2. Determine the real zeros (x-intercepts) of the parabola with equation , i.e. solve 
3. Determine the real zeros (x-intercepts) of the parabola with equation , i.e. solve
4. Determine the real zeros (x-intercepts) of the parabola with equation , i.e. solve

**Determining the number of real zeros (x-intercepts) and the values of the zeros from a general form equation,**

**i.e. solving **

1. Determine the real zeros (x-intercepts) of the parabola with equation , i.e. solve 
2. Determine the real zeros (x-intercepts) of the parabola with equation , i.e. solve 
3. Determine the real zeros (x-intercepts) of the parabola with equation , i.e. solve 
4. Determine the real zeros (x-intercepts) of the parabola with equation , i.e. solve 
5. Determine the real zeros (x-intercepts) of the parabola with equation , i.e. solve 